

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>				5. Lease Designation and Serial No. ML-43023	
b. Type of Well Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other COALBED METHANE <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input checked="" type="checkbox"/>				6. If Indian, Allottee or Tribe Name N/A	
2. Name of Operator RIVER GAS OF UTAH, INC				7. Unit Agreement Name N/A	
3. Address of Operator 511 ENERGY CENTER BOULEVARD NORTHPORT, AL. 35476				8. Farm or Lease Name UTAH	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 860' FWL & 1780' FNL (SW/4 of NW/4). At proposed prod. zone same				9. Well No. 27-85	
14. Distance in miles and direction from nearest town or post office* 11 MILES WEST OF PRICE, UT.				10. Field and Pool, or Wildcat WILDCAT	
15. Distance from proposed location* to nearest property or lease line, ft. (Also to nearest drilg. line, if any) 1780'				11. CO, Sec., T., R., M., or Blk. and Survey or Area SW/NW SEC 27, T14S, R08E	
16. No. of acres in lease 1920				12. County or Parrish CARBON	
17. No. of acres assigned to this well 160				13. State UTAH	
18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. N/A				19. Proposed depth 4000'	
20. Rotary or cable tools Rotary				21. Approx. date work will start* 10-94	
22. Elevations (Show whether DF, RT, GR, etc.) 7041' GR surveyed					
23. PROPOSED CASING AND CEMENTING PROGRAM					
Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement	
11"	8 5/8"	24#	300'	135 SX	
7 7/8"	5 1/2"	17#	3800'	500 SX	

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. I hereby certify that this report is true and complete to the best of my knowledge.

Signed: Terry Burns Title: GEOLOGIST Date: 8-26-94

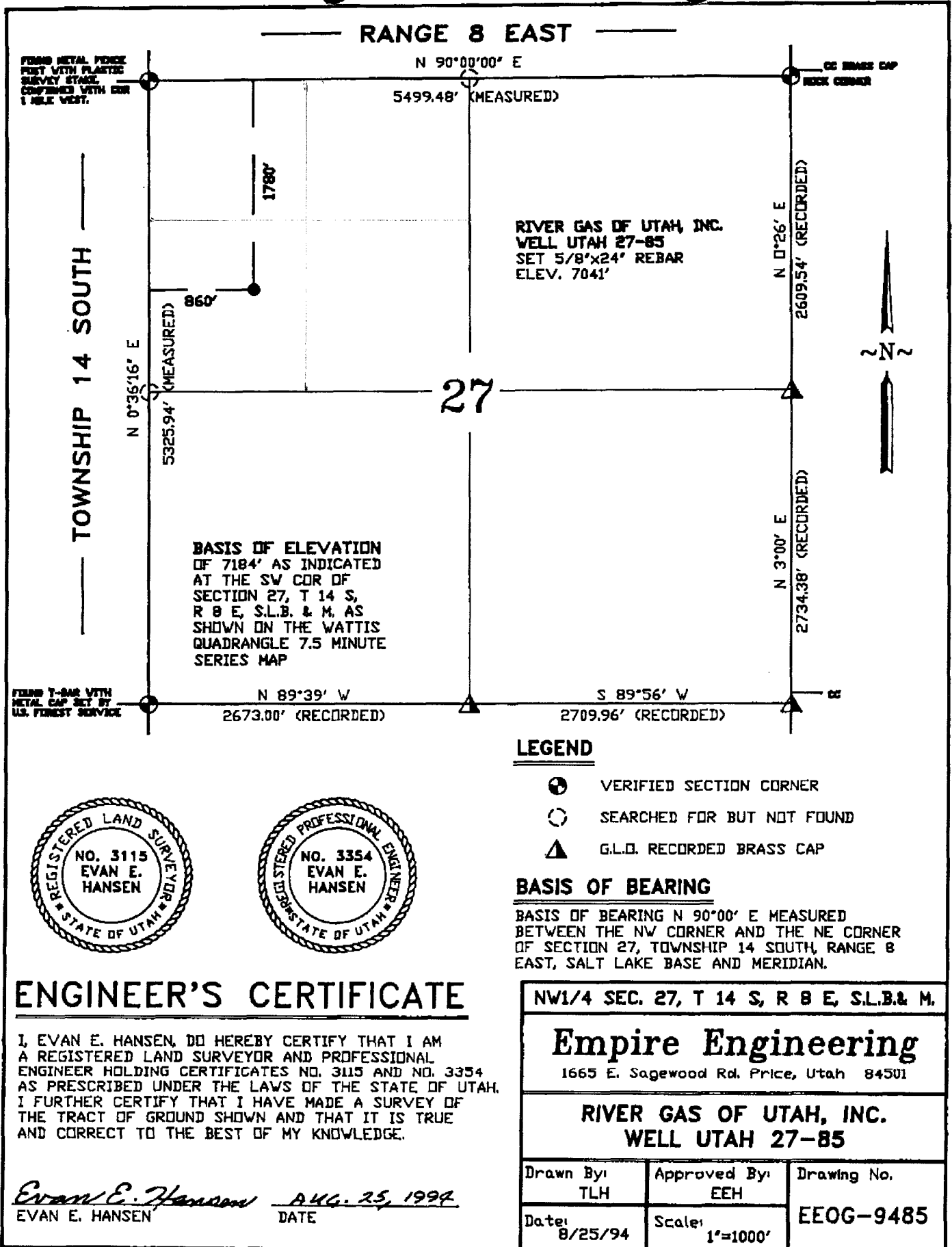
(This space for Federal or State office use)

API NO. 43-007-30261 Approval Date _____

Approved by: _____ Title: _____
 Conditions of approval, if any: _____

APPROVED BY THE STATE
 OF UTAH
 DIVISION OF
 OIL, GAS AND MINING
 DATE: 8/30/94
 BY: JM Matthews
 WELL SPONSOR: 43-007-30261

*See Instructions On Reverse Side





RIVER GAS OF UTAH, INC.

511 Energy Center Blvd.
Northport, AL 35476
(205) 759-3282

August 26, 1994

Mr. Brad Hill
Utah Board of Oil, Gas and Mining
Suite 350, 3 Triad Center
355 West North Temple
Salt Lake City, Utah 84180-1203

RE: Coalbed Methane Well Permit Application -
Utah 27-85, SW/4 of NW/4, SEC 27, T14S, R08E
S.L.B. & M., Carbon County, Utah

Dear Mr. Hill:

Enclosed is an original and two copies of an "Application for Permit to Drill" (APD) for the well described above. Attached to the APD is the following information:

- Attachment #1 - Copy of survey plat of proposed well site
- Attachment #2 - Information regarding use of water at the site
- Attachment #3 - Schematic of BOP
- Attachment #4 - Portion of topographical map indicating proposed well site
- Attachment #5 - Additional drilling information furnished according to State regulations
- Attachment #6 - Well location map in relation to the Drunkard's Wash Federal Unit
- Attachment #7 - Typical road cross-section
- Attachment #8 - Evidence of bond sent to the State Lands and Forestry Division


SEP - 1 1994

Mr. Brad Hill
August 26, 1994
Page Two

Also, please accept this letter as our request that all information regarding this permit be kept confidential, if said information is eligible for such consideration. This request is made in accordance with your regulation R615-2-11.

Thank you for your assistance. If you have any questions, please feel free to contact me.

Sincerely,



Terry Burns
Geologist

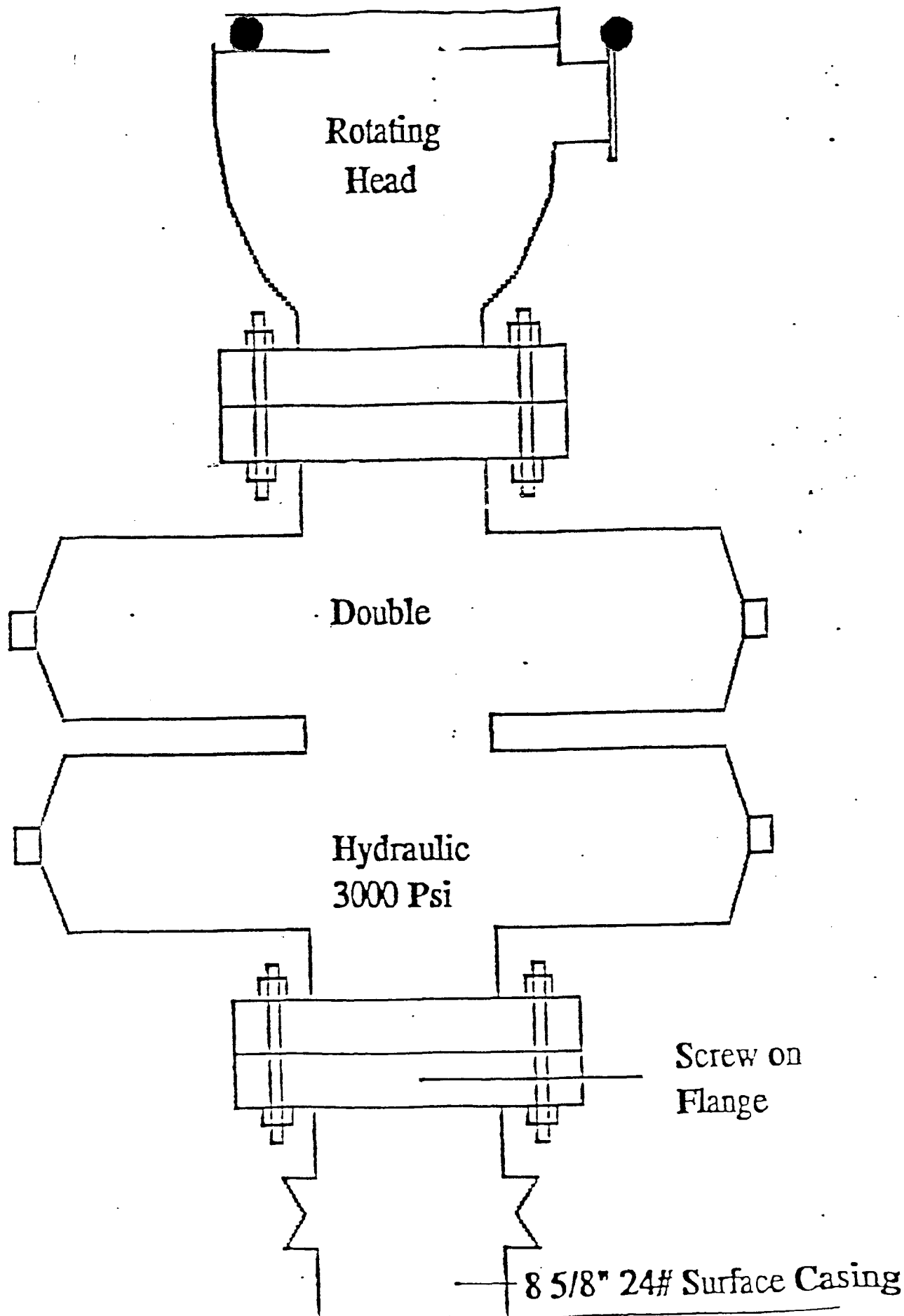
Enclosures

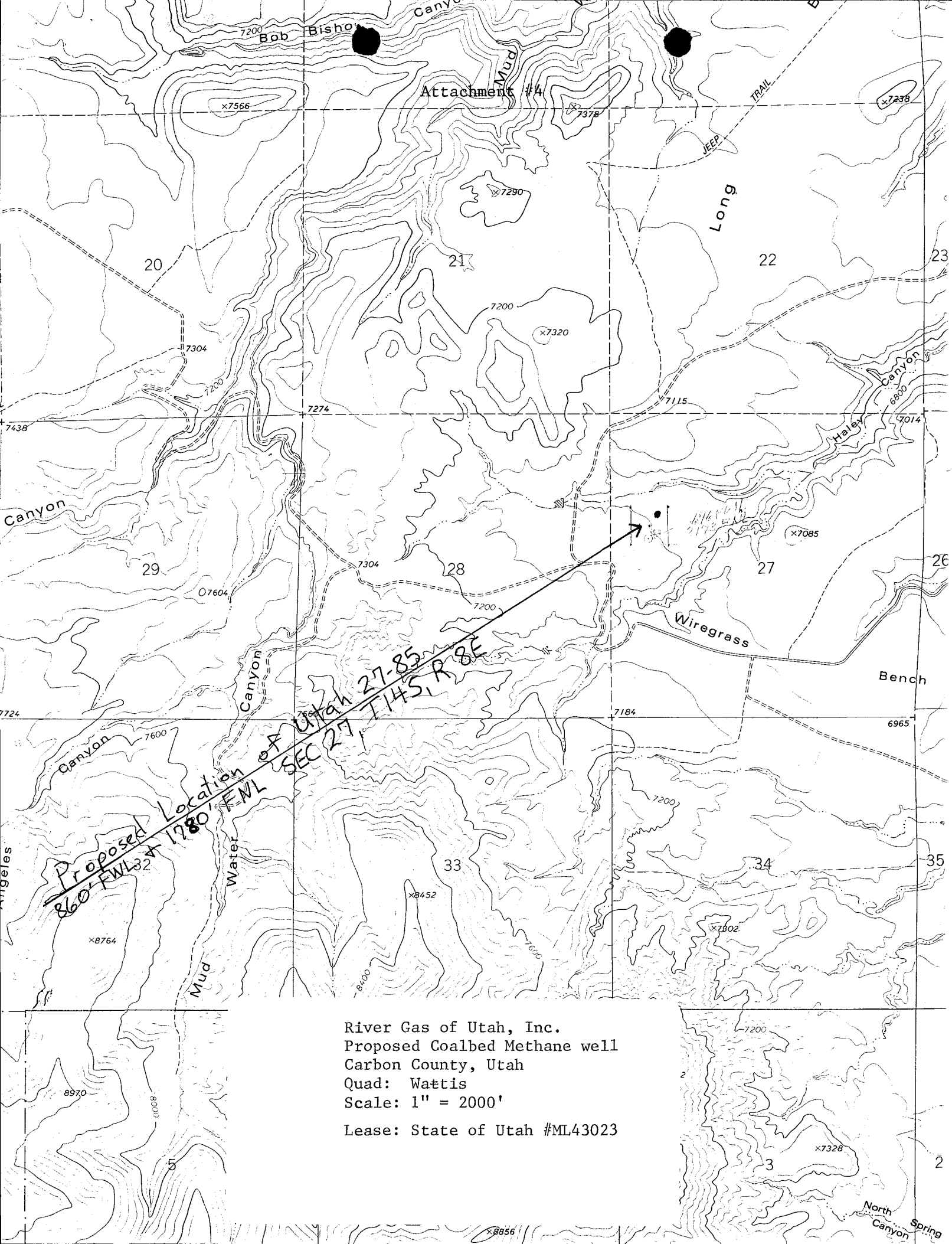
cc: Mr. Edward W. Bonner, Utah Department of Natural Resources
Mr. Eric Jones, BLM in Moab, Utah
Mr. Dean Nyffler, BLM in Price, Utah
Mr. Robert A. Hendricks, BLM in Salt Lake City, Utah
Mr. J. R. French, Jr., Texaco
Mr. R. A. Lamarre, Texaco
Mr. Gee Lake, Jr., Dominion

— RIVER GAS OF UTAH, INC. —
ATTACHMENT #2

RE: Use of Water During Drilling Operations

As stated, water which we will be using is to be purchased from the Price River Water Improvement District (Tel. 801-637-6350). This has been arranged by Mr. Michael J. Farrens, Drilling Supervisor for River Gas of Utah, Inc. He has been in contact with Mr. Phillip Palmer. Mr. Farrens has discussed this arrangement with Mark Page of the Division of Water Rights (Tel. 801-637-1303) over the telephone. The Division of Water Rights is to furnish the Oil & Gas Division with a letter of approval concerning this matter.





River Gas of Utah, Inc.
Proposed Coalbed Methane well
Carbon County, Utah
Quad: Wattis
Scale: 1" = 2000'
Lease: State of Utah #ML43023

Attachment #5

RIVER GAS OF UTAH, INC.
Additional Drilling Information
Prepared by Terry Burns

UTAH # 27-85

860' FWL & 1780' FNL

Section 27, Township 14 South, Range 8 East, Carbon County, Utah

R615-3-4 Permitting of Wells to be Drilled, Deepened or Plugged Back

2.1 Telephone numbers for additional information:

Michael J. Farrens	(205) 759-3282 Office
Vice President	(205) 758-8535 Home
	(801) 650-1162 Mobile

Steven L. Prince	(801) 637-8876 Office
Drilling Supervisor	(801) 650-1211 Mobile

Fred Passarella	(801) 637-8876 Office
Pumper	(801) 650-1296 Mobile

2.2 State Lease: Serial No. **ML43023**

2.3 This gas well will be drilled outside of the Drunkards Wash Federal Unit.

2.4 Survey Plat: See Attachment #1

2.5 Water will be purchased from Price River Water Improvement District : See Attachment #2

2.6 Drilling Program.

2.6.1 The following geologic units are expected to be penetrated in the well.

<u>Formation/Unit</u>	<u>Estimated Depth (ft)</u>
Mancos Shale	Surface
Top of Ferron	3400
Ferron Coal Interval	3430-3550
Top of Tununk Shale	3750
TD	4000

- 2.6.2 The Ferron Coals and lower Ferron Sandstone will be the only gas and water bearing formations. 5-1/2" 17# WC75 casing will be run and cemented with 410 sacks light cement and tail-in with 100 sacks class "A".
- 2.6.3 A double gate 3000 psi BOPE will be used with a rotating head. This equipment will be tested to 2100 psi or 70% of the minimum internal yield pressure. All tests will be recorded in a Driller Report Book. Physical operation of BOP's will be checked on each trip. See Attachment #3 for Schematic.
- 2.6.4 None.
- 2.6.5 Mud Program:
- | | | | |
|----------|--------|------|--|
| 0-300 | 11" | hole | Drill with air, will mud-up if necessary. |
| 300-4000 | 7-7/8" | hole | Drill with air to 3400'. 400 psi, 1500-1800 scf. Drill with mud to TD. |
- 2.6.6 Coring Program:
- Estimated zone to be cored is 3430'-3550' (Ferron Formation)
- 2.6.7 Logging Program:
- | | |
|----------|--|
| 0-300 | Gamma Ray |
| 300-4000 | Gamma Ray, Density, Neutron porosity, Sonic, and Caliper |
- 2.6.8 We expect 1700 psi for bottom hole pressure. No other hazards are expected.

T 14 S

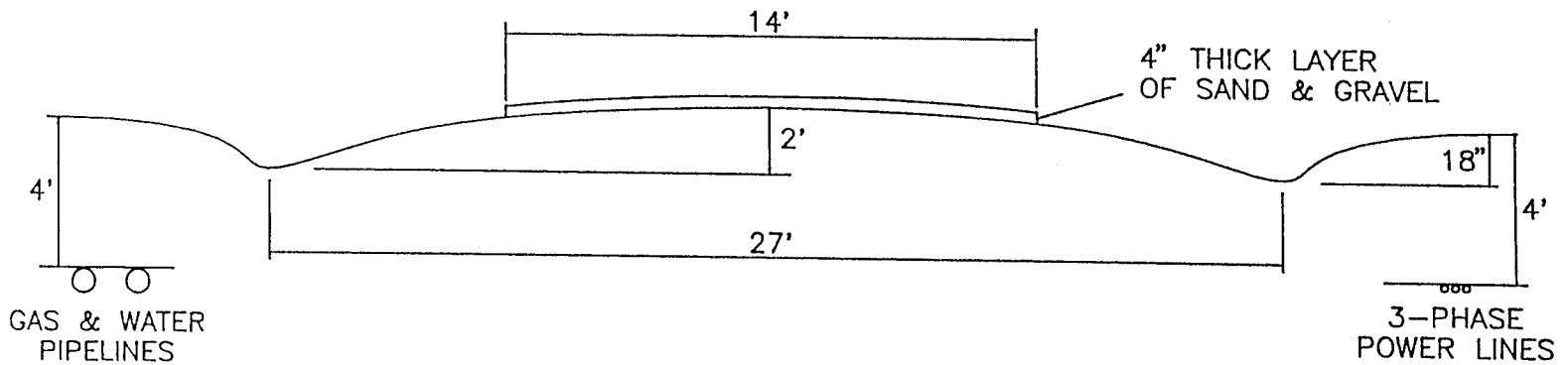
T 14 S

COUNTY	R 10 E	R 11 E
CARSON	8	

$$\begin{array}{r} R\ 9\ E \\ \hline R\ 10\ E \end{array}$$

R	8	E
R	9	E

RIVER GAS OF UTAH, INC.



TYPICAL ROAD CROSS-SECTION

NOT TO SCALE

RIVER GAS OF UTAH, INC.
ATTACHMENT #7

12/1/93

AmSouth Bank N.A.1900 5th Avenue North
Birmingham, Alabama 35203-2610 USA

International Department

TELEX: 6827189

Cable: AMSOUBKBHM

S.W.I.F.T. AMSB US 44

AMENDMENT NUMBER: 003
TO LETTER OF CREDIT NUMBER: S304606
DATE: DECEMBER 29, 1993

BENEFICIARY:
STATE OF UTAH, DEPARTMENT OF
NATURAL RESOURCES, DIVISION OF
STATE LANDS AND FORESTRY
#3 TRIAD CENTER SUITE 400
355 WEST TEMPLE
SALT LAKE CITY, UTAH 84100-1204

AT THE REQUEST OF RIVER GAS OF UTAH, INC.
AND FOR THE ACCOUNT OF SAME
WE HEREBY AMEND OUR LETTER OF CREDIT NUMBER S304606
DATED DECEMBER 14, 1990
OPENED IN YOUR FAVOR AS FOLLOWS:


ACCOUNT PARTY'S ADDRESS IS NOW TO READ:
3600 WATERMELON ROAD, SUITE 204, NORTHPORT, ALABAMA 35476.

-LATEST NEGOTIATION DATE IS EXTENDED TO DECEMBER 13, 1994.

-ADD: THIS LETTER OF CREDIT WILL BE AUTOMATICALLY RENEWED
WITHOUT AMENDMENT FOR SUCCESSIVE PERIODS OF ONE (1) YEAR EACH,
UNLESS AT LEAST 60 DAYS PRIOR TO THE INITIAL EXPIRATION DATE
OR ANY SUCCESSIVE EXPIRATION DATE THE ISSUING BANK GIVES THE
BENEFICIARY NOTICE BY REGISTERED LETTER TO THE ADDRESS ABOVE
THAT THE ISSUING BANK ELECTS NOT TO HAVE THIS LETTER OF CREDIT
RENEWED FOR SUCH ADDITIONAL ONE YEAR PERIOD.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.
THIS AMENDMENT BECOMES AN INTEGRAL PART OF THE ORIGINAL LETTER OF
CREDIT AND IS TO BE ATTACHED THERETO.


AUTHORIZED SIGNATURE


AUTHORIZED SIGNATURE

RIVER GAS OF UTAH, INC.
ATTACHMENT #8

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 09/01/94

API NO. ASSIGNED: 43-007-30261

WELL NAME: UTAH 27-85
OPERATOR: RIVER GAS OF UTAH INC (N1600)

PROPOSED LOCATION:

SWNW 27 - T14S - R08E
SURFACE: 0676-FWL-2173-FNL
BOTTOM: 0676-FWL-2173-FNL
CARBON COUNTY
WILDCAT FIELD (001)

LEASE TYPE: STA
LEASE NUMBER: ML-43023

INSPECT LOCATION BY: 09/25/94

TECH REVIEW	Initials	Date
Engineering	<i>[Signature]</i>	9/30/94
Geology	<i>[Signature]</i>	9/30/94
Surface	<i>ck</i>	9/26/94

PROPOSED PRODUCING FORMATION: FRSD

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Federal[] State☒ Fee[]
(Number LETTER OF CREDIT)
☒ Potash (Y/N)
☒ Oil shale (Y/N)
☒ Water permit
(Number CITY OF PRICE)
☒ RDCC Review (Y/N)
(Date: _____)

LOCATION AND SITING:

___ R649-2-3. Unit: _____
☒ R649-3-2. General.
___ R649-3-3. Exception.
___ Drilling Unit.
___ Board Cause no: _____
___ Date: _____

COMMENTS:

*Originally staked at 1780' FNL, 860' FWL, -
relocated at request of Division of Wildlife Resources
to 2173' FNL, 676' FWL.*

STIPULATIONS:

~~SEE THE ATTACHED PRE-SITE ASSESSMENT~~

DRILLING LOCATION ASSESSMENT

State of Utah Division of Oil, Gas and Mining

OPERATOR: River Gas of Utah WELL NAME: 27-85
SECTION: 27 TWP: 14s RNG: 8e LOC: 860 FwL 1780 FnL
QTR/QTR sw/nw COUNTY: Carbon FIELD: wildcat
SURFACE OWNER: State of Utah
SURFACE AGREEMENT: State
SPACING: 160 ac. F SECTION LINE F QTR/QTR LINE F ANOTHER WELL
GEOLOGIST: C. Kierst DATE AND TIME: 9/9/94 2:20 PM

PARTICIPANTS: Larry Nellis, C. Kierst, Steve Prince

REGIONAL SETTING/TOPOGRAPHY: Coalesced alluvial fans at the foot of the western Book Cliffs (below the Wasatch Plateau). Major and minor arroyos near the location. The topography dips to the NE in the area of the location. About 600' from Haley Canyon.

LAND USE:

CURRENT SURFACE USE: Rangeland - grazing, recreation, wildlife habitat.

PROPOSED SURFACE DISTURBANCE: see modified site diagram.

AFFECTED FLOODPLAINS AND/OR WETLANDS: none

FLORA/FAUNA: sagebrush, grasses, pinion, juniper/ coyotes, ground squirrels and other rodents, deer, seasonal elk use, reptiles, etc.

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Clayey soil derived from the erosion of the Mancos Shale. Sandstone boulders may be near surface in this area.

SURFACE FORMATION & CHARACTERISTICS: Mancos Shale overlain by coalesced Quaternary alluvial fans.

EROSION/SEDIMENTATION/STABILITY: Stable

PALEONTOLOGICAL POTENTIAL: Low

SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: Ferron Sandstone Member coal interval which is expected to be cored @ 3430' to 3550'.

ABNORMAL PRESSURES-HIGH AND LOW: none - expected bottom hole pressure of 1700#.

CULTURAL RESOURCES/ARCHAEOLOGY: Area has been cleared.

CONSTRUCTION MATERIALS: Onsite materials will be used.

SITE RECLAMATION: State School and Institutional Trust Lands lease with contained reclamation standards language.

RESERVE PIT

CHARACTERISTICS: 6' deep and 50'X 50'.

LINING: Liner is needed. I will return when pit is to be dug to see if bentonite liner is needed.

MUD PROGRAM: Air to core depth with mud-up if necessary and gel/water through the core interval.

DRILLING WATER SUPPLY: Price City water purchase.

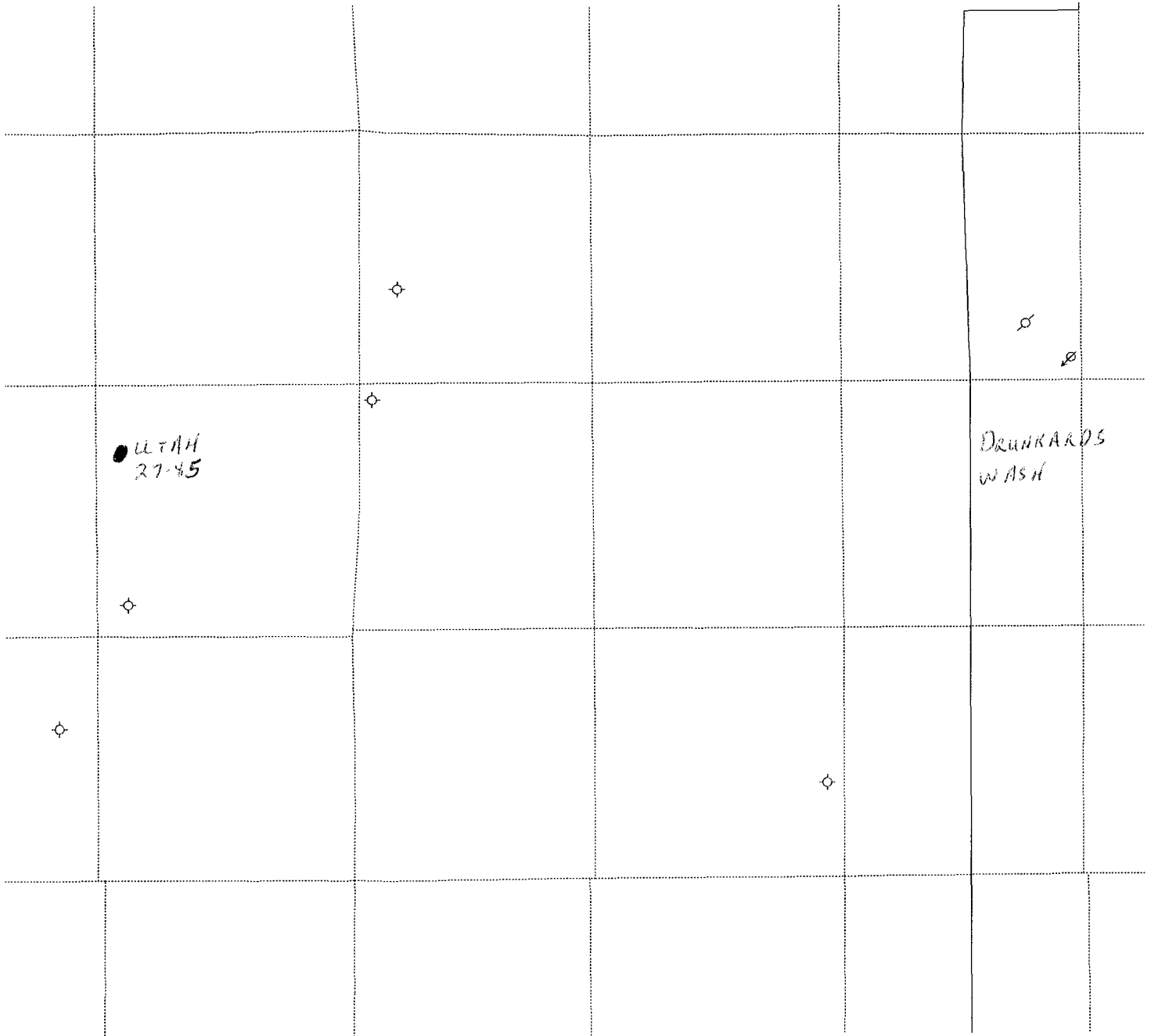
OTHER OBSERVATIONS None

STIPULATIONS FOR APD APPROVAL Bentonite pit liner req'd. unless I visually observe that the pit is not in the nearby conglomerate.

ATTACHMENTS

Photographs will be placed on file.

RIVER GAS OF UTAH
UTAH 27-85
SEC. 27 T14S R8E



STATE OF UTAH

Operator: RIVER GAS OF UTAH	Well Name: UTAH 27-85
Project ID: 43-007-30261	Location: SEC. 27 - T14S - R08E

Design Parameters:

Mud weight (8.60 ppg) : 0.447 psi/ft
 Shut in surface pressure : 1553 psi
 Internal gradient (burst) : 0.038 psi/ft
 Annular gradient (burst) : 0.000 psi/ft
 Tensile load is determined using buoyed weight
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125
 Burst : 1.00
 8 Round : 1.80 (J)
 Buttress : 1.60 (J)
 Other : 1.50 (J)
 Body Yield : 1.50 (B)

Length (feet)		Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost	
1	3,800	5.500	17.00	C-75	LT&C	3,800	4.767		
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	1698	6040	3.558	1698	7250	4.27	56.11	327	5.83 J

Prepared by : FRM, Salt Lake City, UT
 Date : 09-30-1994
 Remarks :

LOCATION CHANGED BY DWR

Minimum segment length for the 3,800 foot well is 1,000 feet.

SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas temperature of 93°F (Surface 74°F, BHT 112°F & temp. gradient 1.000°/100 ft.)

The mud gradient and bottom hole pressures (for burst) are 0.447 psi/ft and 1,698 psi, respectively.

NOTE: The design factors used in this casing string design are as shown above. As a general guide-line, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1987 pricing model. (Version 1.06)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

<p>APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK</p>			<p>5. Lease Designation and Serial No. ML-43023</p>	
<p>1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> </p>			<p>6. If Indian, Allottee or Tribe Name N/A</p>	
<p>b. Type of Well Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other COALBED METHANE Single Zone <input type="checkbox"/> Multiple Zone <input checked="" type="checkbox"/> </p>			<p>7. Unit Agreement Name N/A</p>	
<p>2. Name of Operator RIVER GAS OF UTAH, INC</p>			<p>8. Farm or Lease Name UTAH</p>	
<p>3. Address of Operator 511 ENERGY CENTER BOULEVARD NORTHPORT, AL. 35476</p>			<p>9. Well No. 27-85</p>	
<p>4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 860' FWL & 1780' FNL (SW/4 of NW/4). At proposed prod. zone same </p>			<p>10. Field and Pool, or Wildcat WILDCAT</p>	
<p>14. Distance in miles and direction from nearest town or post office* 11 MILES WEST OF PRICE, UT.</p>			<p>11. QQ, Sec., T., R., M., or Blk. and Survey or Area SW/NW SEC 27, T14S, R08E</p>	
<p>15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drlg. line, if any) 1780'</p>		<p>16. No. of acres in lease 1920</p>		<p>17. No. of acres assigned to this well 160</p>
<p>18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. N/A</p>		<p>19. Proposed depth 4000'</p>		<p>20. Rotary or cable tools Rotary</p>
<p>21. Elevations (Show whether DF, RT, GR, etc.) 7041' GR surveyed</p>			<p>22. Approx. date work will start* 10-94</p>	
<p>23. PROPOSED CASING AND CEMENTING PROGRAM</p>				
Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
11"	8 5/8"	24#	300'	135 SX
7 7/8"	5 1/2"	17#	3800'	500 SX

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. I hereby certify that this report is true and complete to the best of my knowledge.

Signed Terry Burns Title GEOLOGIST Date 8-26-94

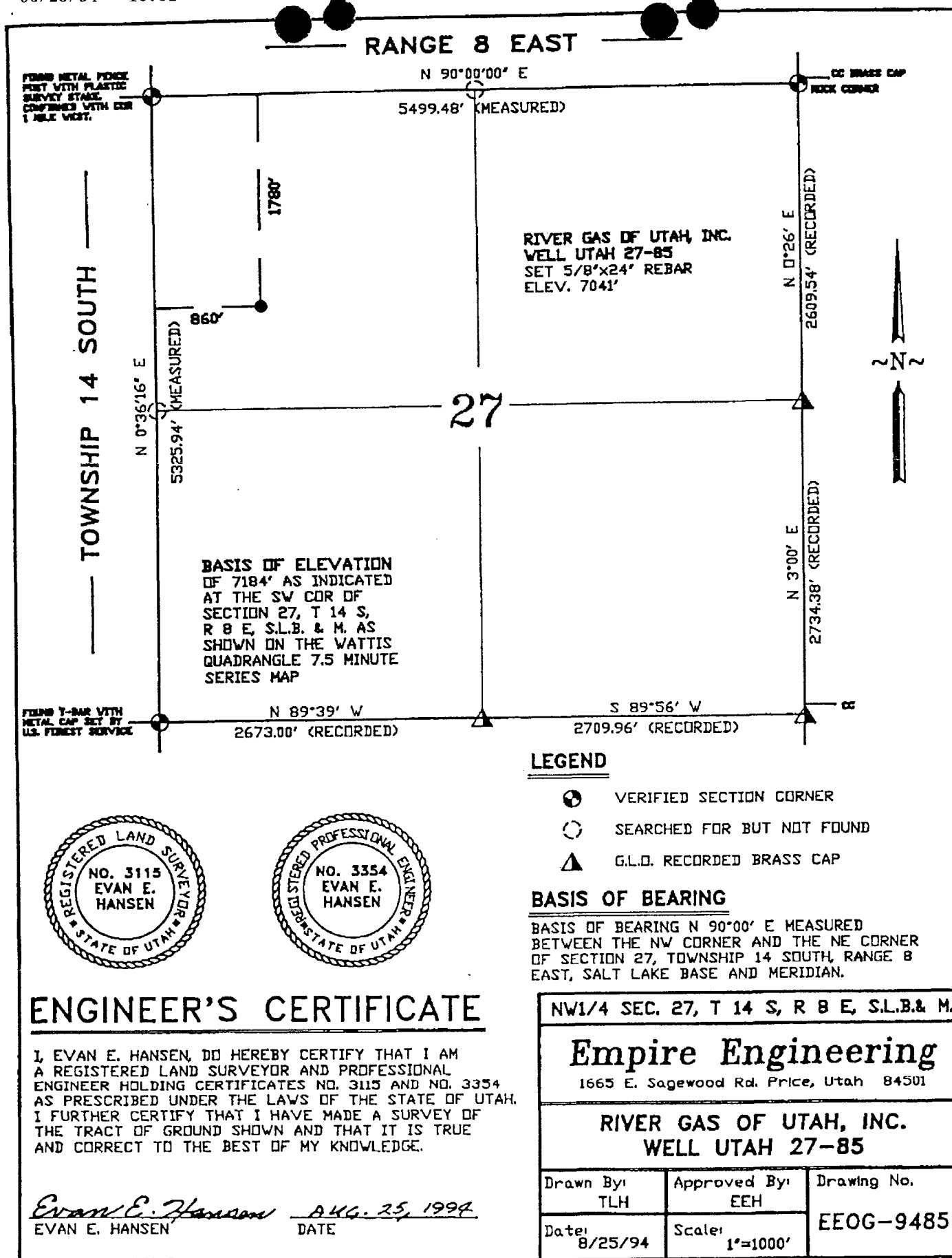
(This space for Federal or State office use)

API NO. 43-007-30261 Approval Date _____

Approved by RECEIVED Title Branch of Fluid Minerals Date SEP 8 1994

Conditions of approval, if any:

*See Instructions On Reverse Side



STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)
3. APPROXIMATE DATE PROJECT WILL START:
October 1, 1994
4. AREAWIDE CLEARING HOUSE(s) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Southeastern Utah Association of Local Governments
5. TYPE OF ACTION: ☐ Lease ☒ Permit ☐ License ☐ Land Acquisition
☐ Land Sale ☐ Land Exchange ☐ Other _____
6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill
7. DESCRIPTION:
River Gas of Utah, Inc. proposes to drill the Utah 27-85 well (wildcat) on state lease ML-43023, Carbon County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.
8. LAND AFFECTED (site location map required) (indicate county)
SW NW, Section 27, Township 14 South, Range 8 East, Carbon County, Utah
9. HAS THE LOCAL GOVERNMENT(s) BEEN CONTACTED?
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
Degree of impact is based on the discovery of oil or gas in commercial quantities.
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
12. FOR FURTHER INFORMATION, CONTACT: 13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL:
Frank R. Matthews
PHONE: 538-5340
DATE: 9-6-94
Petroleum Engineer

DRILLING LOCATION ASSESSMENT

State of Utah Division of Oil, Gas and Mining

OPERATOR: River Gas of Utah WELL NAME: 27-85
SECTION: 27 TWP: 14s RNG: 8e LOC: 676 FwL 2173 FnL
QTR/QTR sw/nw COUNTY: Carbon FIELD: wildcat
SURFACE OWNER: State of Utah
SURFACE AGREEMENT: State
SPACING: 160 ac. F SECTION LINE F QTR/QTR LINE F ANOTHER WELL
GEOLOGIST: C. Kierst DATE AND TIME: 9/26/94 noon

PARTICIPANTS: Mike Hebertson, Chris Kierst, Steve Prince

REGIONAL SETTING/TOPOGRAPHY: Coalesced alluvial fans at the foot of the western Book Cliffs (below the Wasatch Plateau). Major and minor arroyos near the location. The topography dips to the NE in the area of the location. About 500' from Haley Canyon.

LAND USE:

CURRENT SURFACE USE: Rangeland - grazing, recreation, wildlife habitat.

PROPOSED SURFACE DISTURBANCE: see modified site diagram.

AFFECTED FLOODPLAINS AND/OR WETLANDS: none

FLORA/FAUNA: sagebrush, grasses, pinion, juniper/ coyotes, ground squirrels and other rodents, deer, seasonal elk use, reptiles, etc.

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Clayey soil derived from the erosion of the Mancos Shale. Sandstone boulders may be near surface in this area.

SURFACE FORMATION & CHARACTERISTICS: Mancos Shale overlain by coalesced Quaternary alluvial fans.

EROSION/SEDIMENTATION/STABILITY: Stable

PALEONTOLOGICAL POTENTIAL: Low

SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: Ferron Sandstone Member coal interval which is expected to be cored @ 3430' to 3550'.

ABNORMAL PRESSURES-HIGH AND LOW: none - expected bottom hole pressure of 1700#.

CULTURAL RESOURCES/ARCHAEOLOGY: Area has been cleared.

CONSTRUCTION MATERIALS: Onsite materials will be used.

SITE RECLAMATION: State School and Institutional Trust Lands lease with contained reclamation standards language.

RESERVE PIT

CHARACTERISTICS: 6' deep and 50'X 50'.

LINING: Liner is needed. I will return when pit is to be dug to see if bentonite liner is needed.

MUD PROGRAM: Air to core depth with mud-up if necessary and gel/water through the core interval.

DRILLING WATER SUPPLY: Price City water purchase.

OTHER OBSERVATIONS None

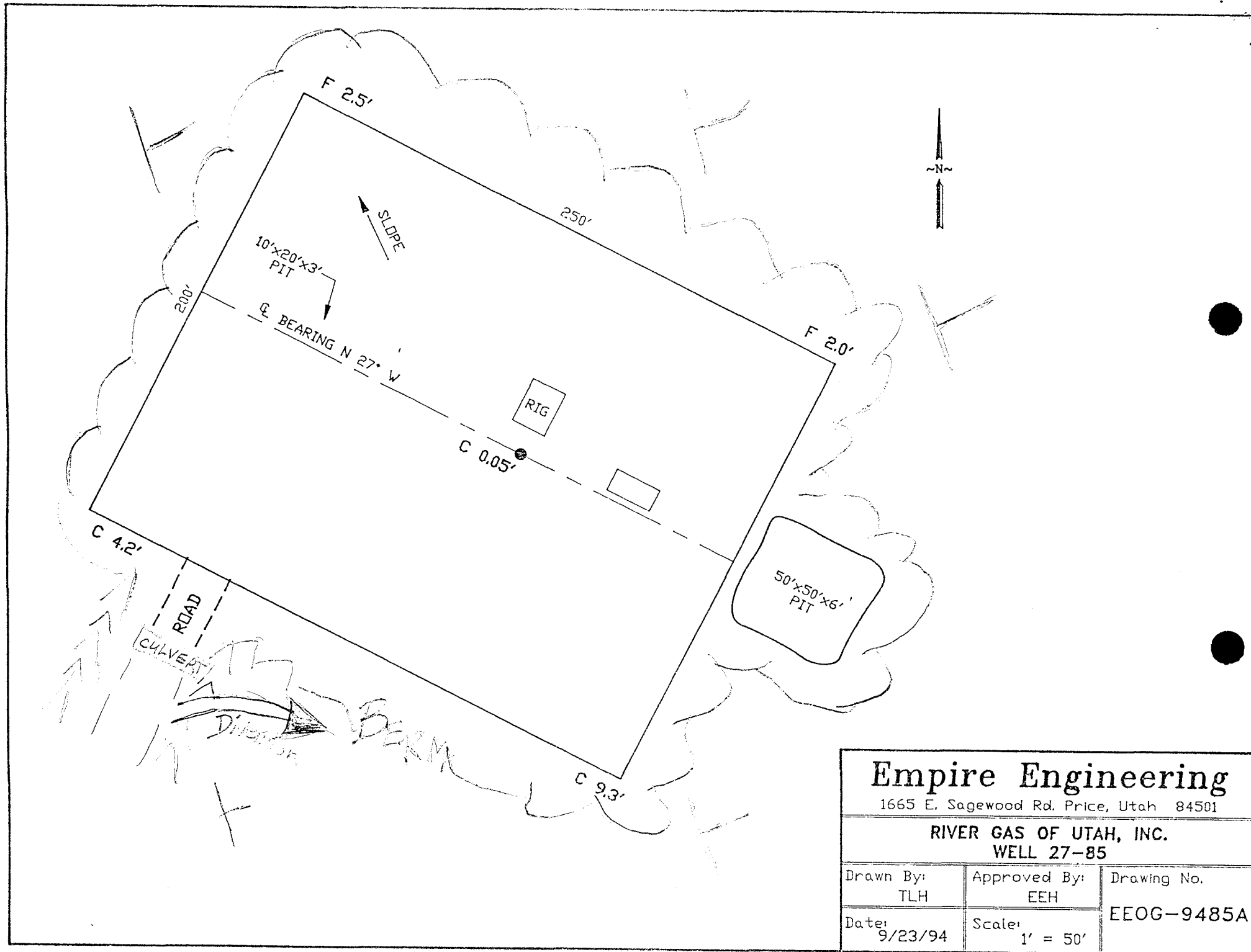
STIPULATIONS FOR APD APPROVAL

Bentonite pit liner required unless / visually observed that the pit is not in the nearby conglomerate.

Site infrastructure as per the modified site diagram.

ATTACHMENTS

Photographs will be placed on file.



Empire Engineering

1665 E. Sagewood Rd. Price, Utah 84501

RIVER GAS OF UTAH, INC.
WELL 27-85

Drawn By: TLH	Approved By: EEH	Drawing No. EEOG-9485A
Date: 9/23/94	Scale: 1' = 50'	

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL OR DEEPEN		5. Lease Designation and Serial Number: <u>ML-43023</u>	
1A. Type of Work: DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		6. If Indian, Allottee or Tribe Name: <u>N/A</u>	
		7. Unit Assignment Name: <u>N/A</u>	
B. Type of Well: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER: _____		8. Farm or Lease Name: <u>UTAH</u>	
2. Name of Operator: <u>RIVER GAS OF UTAH, INC.</u>		9. Well Number: <u>27-85</u>	
3. Address and Telephone Number: <u>511 Energy Center Boulevard Northport, AL 35476</u>		10. Field and Pool, or Wildcat: <u>WILDCAT</u>	
4. Location of Well (Footages) At Surface: <u>676' FWL & 2173' FNL (SW/4 of NW/4)</u> At Proposed Producing Zone: <u>same</u>		11. Qtr/Qtr, Section, Township, Range, Meridian: <u>SW/NW Sec 27, T14S, R08E</u>	
14. Distance in miles and direction from nearest town or post office: <u>11 miles West of Price, Ut</u>		12. County: <u>CARBON</u>	13. State: <u>UTAH</u>
15. Distance to nearest property or lease line (feet): <u>2173'</u>	16. Number of acres in lease: <u>1920</u>	17. Number of acres assigned to this well: <u>160</u>	
18. Distance to nearest well, drilling, completed, or applied for, on this lease (feet): <u>N/A</u>	19. Proposed Depth: <u>4000'</u>	20. Rotary or cable tools: <u>Rotary</u>	
21. Elevations (show whether DF, RT, GR, etc.): <u>7048 GR surveyed</u>		22. Approximate date work will start: <u>10-94</u>	

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	24#	300'	135 SX
7 7/8"	5 1/2"	17#	3800'	500 SX

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

CONFIDENTIAL

SEP 29 1994

24. Name & Signature: STEVEN L. PRINCE *Steven L Prince* Title: OPERATIONS MANAGER Date: 9/28/94

(This space for State use only)

API Number Assigned: 43-007-30261

Approval:

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 9/30/94
BY: *JM Matthews*
WELL SPACING: R649-3-2

RANGE 8 EAST

N 90°00'00"

5499.48' (MEASURED)

CC BRASS CAP
ROCK CORNER

FOUND METAL FENCE
POST WITH PLASTIC
SURVEY STAKE
CONFIRMED WITH COR
1 MILE WEST.

TOWNSHIP 14 SOUTH

N 0°36'16" E

5325.94' (MEASURED)

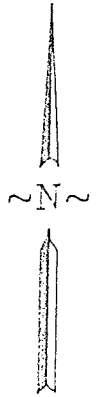
676'

2173'

RIVER GAS OF UTAH, INC.
WELL UTAH 27-85
SET 5/8"x24" REBAR
ELEV. 7048'

N 0°26' E
2609.54' (RECORDED)

N 3°00' E
2734.38' (RECORDED)



27

BASIS OF ELEVATION
OF 7184' AS INDICATED
AT THE SW COR OF
SECTION 27, T 14 S,
R 8 E, S.L.B. & M. AS
SHOWN ON THE WATTIS
QUADRANGLE 7.5 MINUTE
SERIES MAP

FOUND T-BAR WITH
METAL CAP SET BY
U.S. FOREST SERVICE

N 89°39' W




2673.00' (RECORDED)

S 89°56' W

2709.96' (RECORDED)

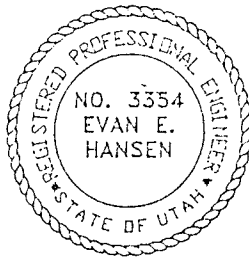
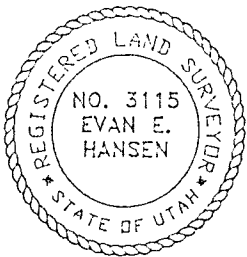
CC

LEGEND

-  VERIFIED SECTION CORNER
-  SEARCHED FOR BUT NOT FOUND
-  G.L.B. RECORDED BRASS CAP

BASIS OF BEARING

BASIS OF BEARING N 90°00' E MEASURED
BETWEEN THE NW CORNER AND THE NE CORNER
OF SECTION 27, TOWNSHIP 14 SOUTH, RANGE 8
EAST, SALT LAKE BASE AND MERIDIAN.



ENGINEER'S CERTIFICATE

I, EVAN E. HANSEN, DO HEREBY CERTIFY THAT I AM
A REGISTERED LAND SURVEYOR AND PROFESSIONAL
ENGINEER HOLDING CERTIFICATES NO. 3115 AND NO. 3354
AS PRESCRIBED UNDER THE LAWS OF THE STATE OF UTAH.
I FURTHER CERTIFY THAT I HAVE MADE A SURVEY OF
THE TRACT OF GROUND SHOWN AND THAT IT IS TRUE
AND CORRECT TO THE BEST OF MY KNOWLEDGE.

Evan E. Hansen
EVAN E. HANSEN

SEPT. 23, 1998
DATE

DATE REVISED 9/20/94

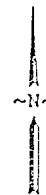
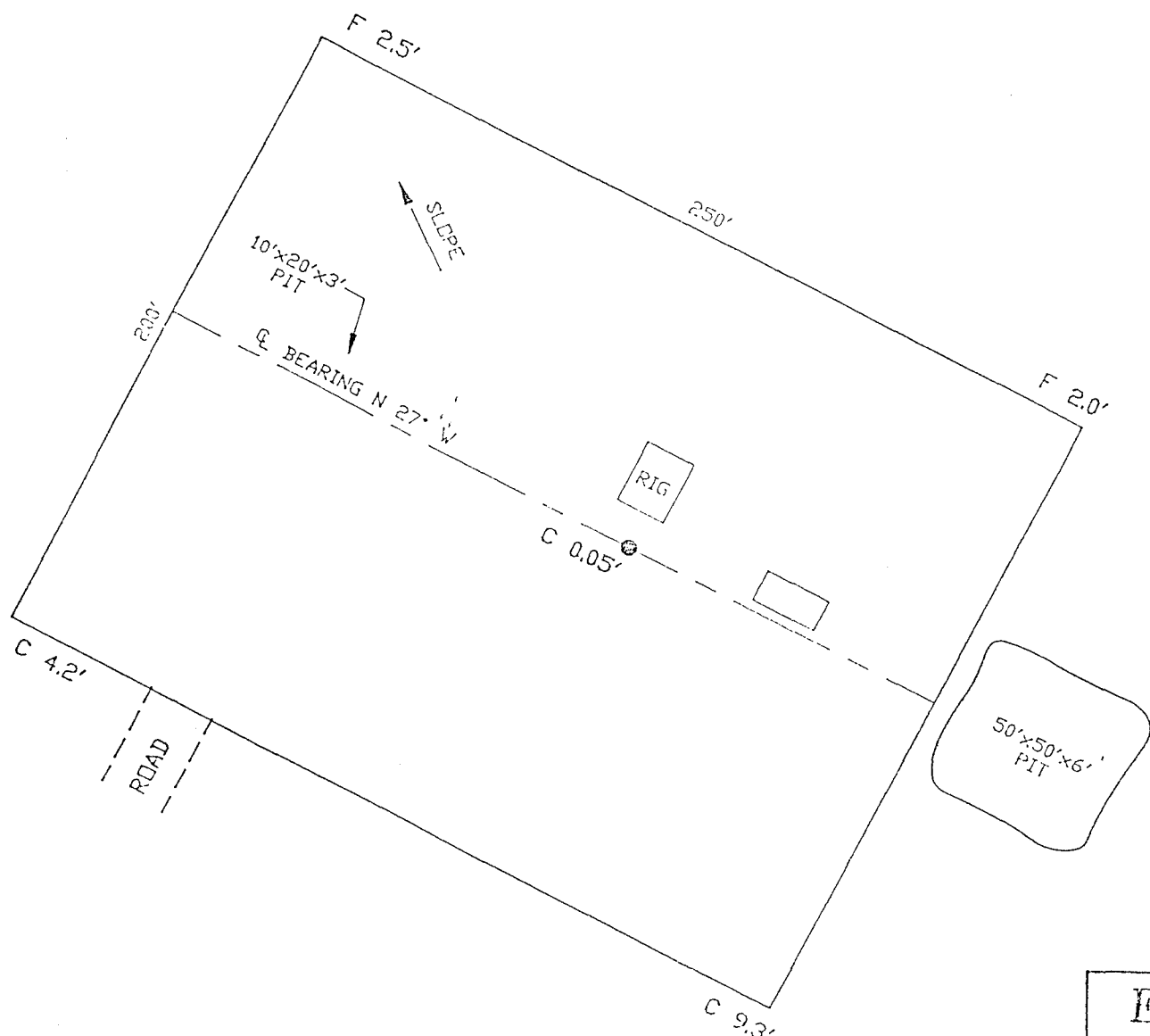
NW1/4 SEC. 27, T 14 S, R 8 E, S.L.B. & M.

Empire Engineering

1665 E. Sagewood Rd. Price, Utah 84501

RIVER GAS OF UTAH, INC.
WELL UTAH 27-85

Drawn By: TLH	Approved By: EEH	Drawing No. EEOG-9485
Date: 9/23/94	Scale: 1"=1000'	



Empire Engineering

1665 E. Sagewood Rd. Price, Utah 84501

RIVER GAS OF UTAH, INC.
WELL 27-85

Drawn By: TLH	Approved By: EEH	Drawing No. EEOG-9485A
Date: 9/23/94	Scale: 1' = 50'	



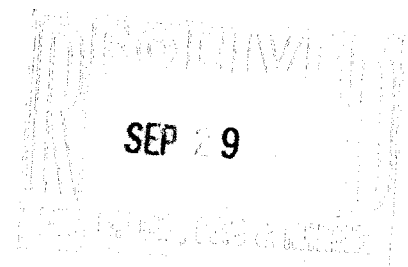
RIVER GAS OF UTAH, INC.

290 South Highway 55, Box 638
Price, Utah 84501-0638
Telephone (801) 637-8876
FAX (801) 637-8924

September 28, 1994

Mr. Mike Hebertson
Utah Division of Oil, Gas, and Mining
Suite 350, 3 Triad Center
355 West North Temple
Salt Lake City, Utah 84180-1203

RE: Coalbed Methane Well Permit Application-
Utah 27-85, SW/4 of NW/4, SEC 27, T14S, R08E
S.L.B. & M., Carbon County, Utah



Dear Mike:

Enclosed is the revised "Application for Permit to Drill" (APD) for the well described above. Also, enclosed is another copy of both the location Plat and The Cut/Fill drawing. These revisions constitute the changes in location requested by The Wildlife, Division of The DNR.

Also, please accept this letter as our request that all information regarding this permit be kept confidential, if said information is eligible for such consideration. This request is made in accordance with your regulation R615-2-11.

Thank you for your assistance. If you have any questions, please feel free to contact me.

Sincerely,

Steven L. Prince
Operations Manager

Enclosures

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

6. Lease Designation and Serial Number

ML-42023

7. Indian Allottee or Tribe Name

N/A

8. Unit or Communitization Agreement

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use APPLICATION FOR PERMIT— for such proposals

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other (specify) COALBED METHANE

9. Well Name and Number

UTAH 27-85

2. Name of Operator

RIVER GAS OF UTAH, INC.

10. API Well Number

3. Address of Operator

511 Energy Center Blvd., Northport, AL 35476

4. Telephone Number

205-759-3282

11. Field and Pool, or Wildcat

WILDCAT

5. Location of Well

Footage 676' FWL, 2173' FNL

County : CARBON

QQ, Sec. T., R., M. : SW/NW Sec. 27, T14S, R8E

State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate Date Work Will Start _____

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

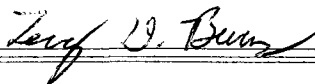
Well location has been moved to 676' FWL, 2173' FNL, Sec. 27, T14S, R8E

OCT - 3 1994

14. I hereby certify that the foregoing is true and correct

Name & Signature

Terry D. Burns



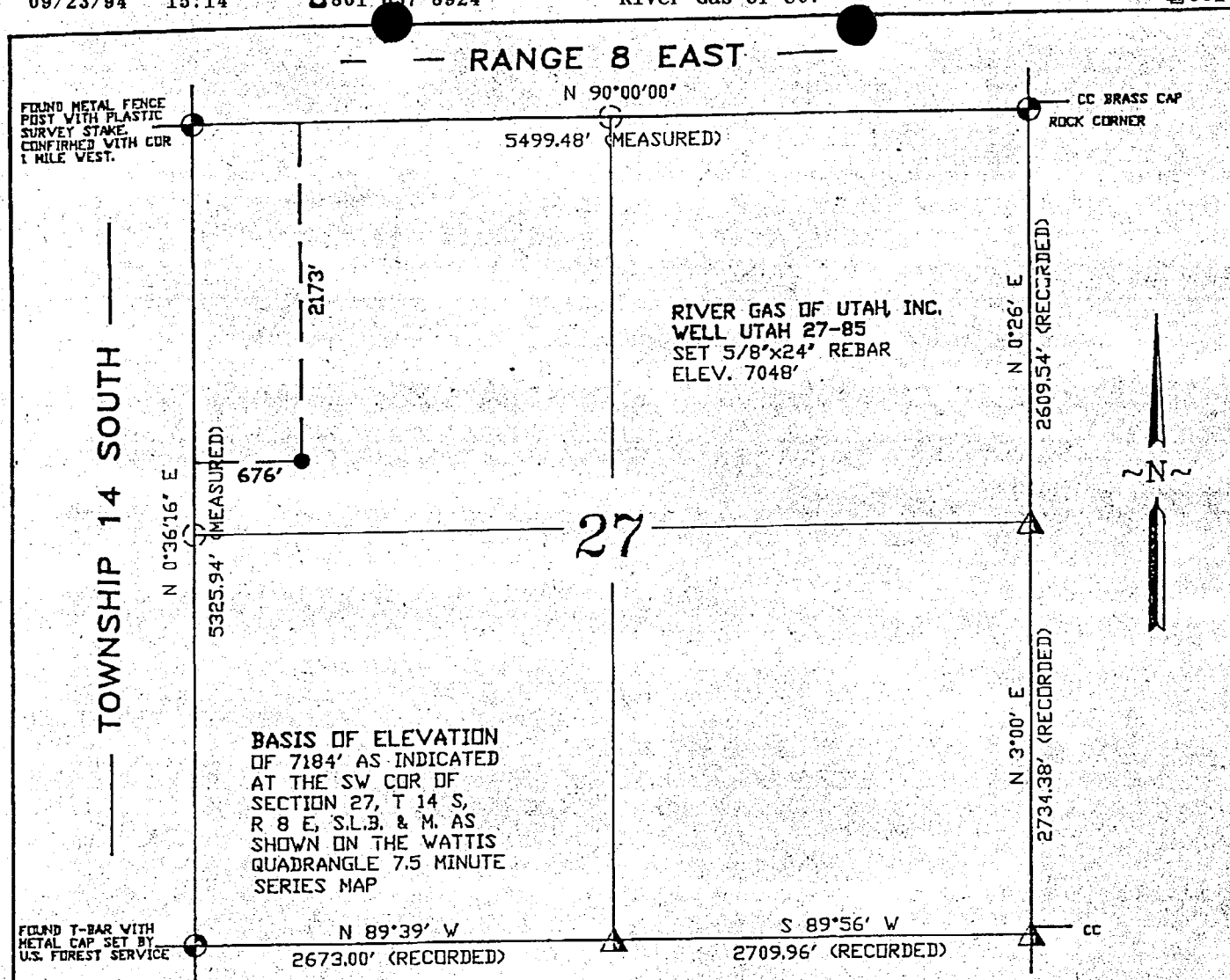
Title

Geologist

Date

09-26-94

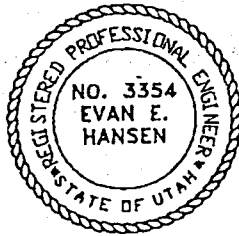
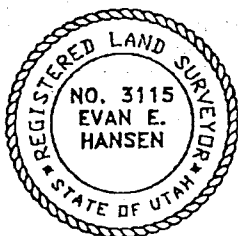
(State Use Only)

**LEGEND**

- VERIFIED SECTION CORNER
- SEARCHED FOR BUT NOT FOUND
- ▲ G.L.O. RECORDED BRASS CAP

BASIS OF BEARING

BASIS OF BEARING N 90°00' E MEASURED
BETWEEN THE NW CORNER AND THE NE CORNER
OF SECTION 27, TOWNSHIP 14 SOUTH, RANGE 8
EAST, SALT LAKE BASE AND MERIDIAN.

**ENGINEER'S CERTIFICATE**

I, EVAN E. HANSEN, DO HEREBY CERTIFY THAT I AM
A REGISTERED LAND SURVEYOR AND PROFESSIONAL
ENGINEER HOLDING CERTIFICATES NO. 3115 AND NO. 3354
AS PRESCRIBED UNDER THE LAWS OF THE STATE OF UTAH.
I FURTHER CERTIFY THAT I HAVE MADE A SURVEY OF
THE TRACT OF GROUND SHOWN AND THAT IT IS TRUE
AND CORRECT TO THE BEST OF MY KNOWLEDGE.

Evan E. Hansen
EVAN E. HANSEN

SEPT. 23, 1994
DATE

DATE REVISED 9/20/94

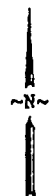
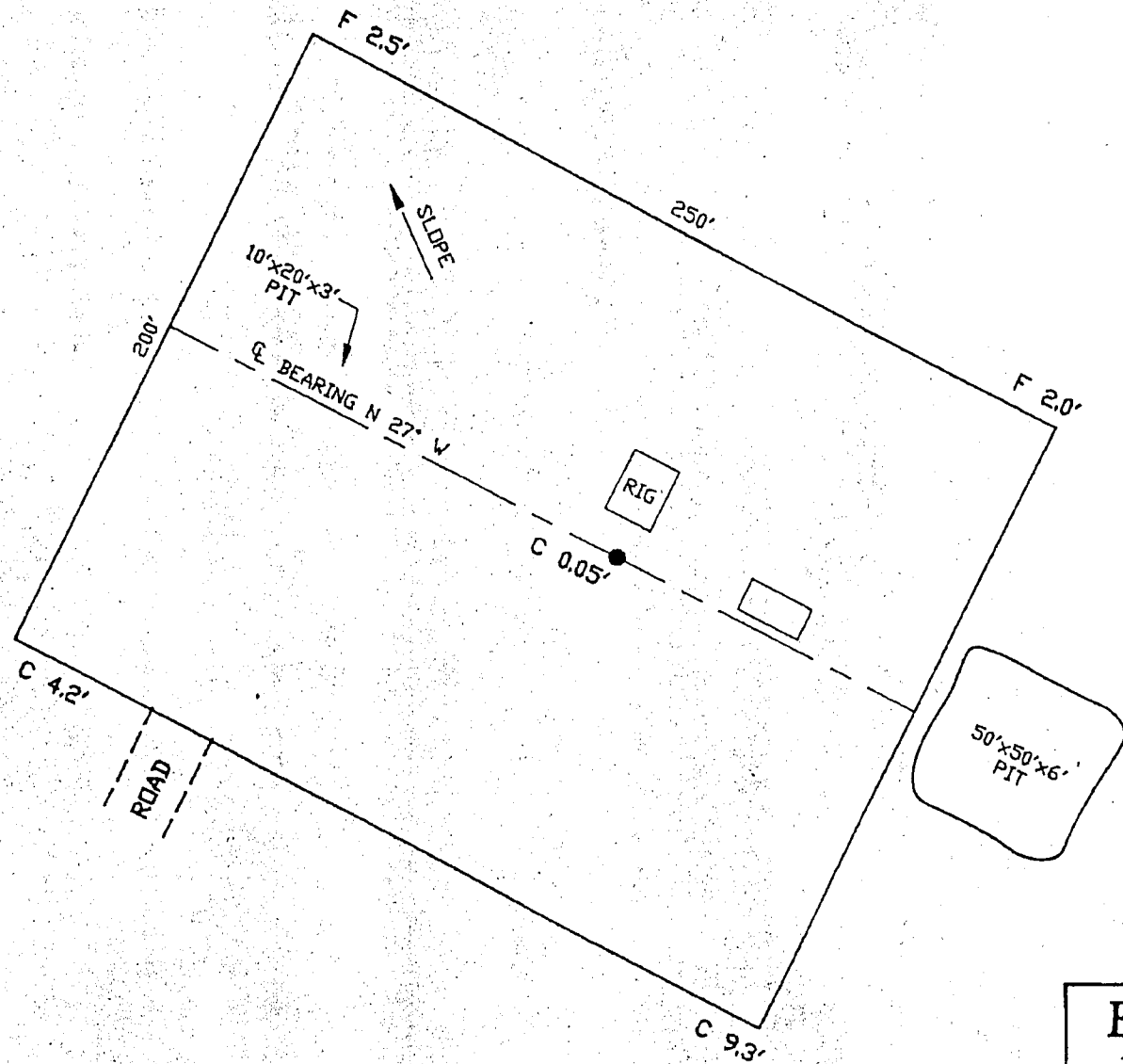
NW1/4 SEC. 27, T 14 S, R 8 E, S.L.B. & M.

Empire Engineering

1665 E. Sagewood Rd. Price, Utah 84501

**RIVER GAS OF UTAH, INC.
WELL UTAH 27-85**

Drawn By: TLH	Approved By: EEH	Drawing No. EEOG-9485
Date: 9/23/94	Scale: 1"=1000'	



Empire Engineering

1665 E. Sagewood Rd. Price, Utah 84501

RIVER GAS OF UTAH, INC.
WELL 27-85

Drawn By: TLH	Approved By: EEH	Drawing No. EEOG-9485A
Date: 9/23/94	Scale: 1' = 50'	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

6. Lease Designation and Serial Number

ML-42023

7. Indian Allottee or Tribe Name

N/A

8. Unit or Communitization Agreement

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use APPLICATION FOR PERMIT— for such proposals

1. Type of Well

☐ Oil Well☒ Gas Well☐ Other (specify)

COALBED METHANE

9. Well Name and Number

UTAH 27-85

2. Name of Operator

RIVER GAS OF UTAH, INC.

10. API Well Number

3. Address of Operator

511 Energy Center Blvd. Northport, AL 35476

4. Telephone Number

205-759-3282

11. Field and Pool, or Wildcat

WILDCAT

5. Location of Well

Footage 676' FWL, 2173' FNL

County : CARBON

OO, Sec. T., R., M. : SW/NW Sec 27, T14S, R8E

State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate Date Work Will Start _____

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

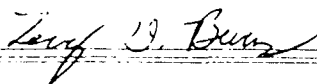
Well location has been moved to 676' FWL, 2173' FNL, Sec. 27, T14S, R8E

OCT - 3 1994

14. I hereby certify that the foregoing is true and correct.

Name & Signature

Terry D. Burns



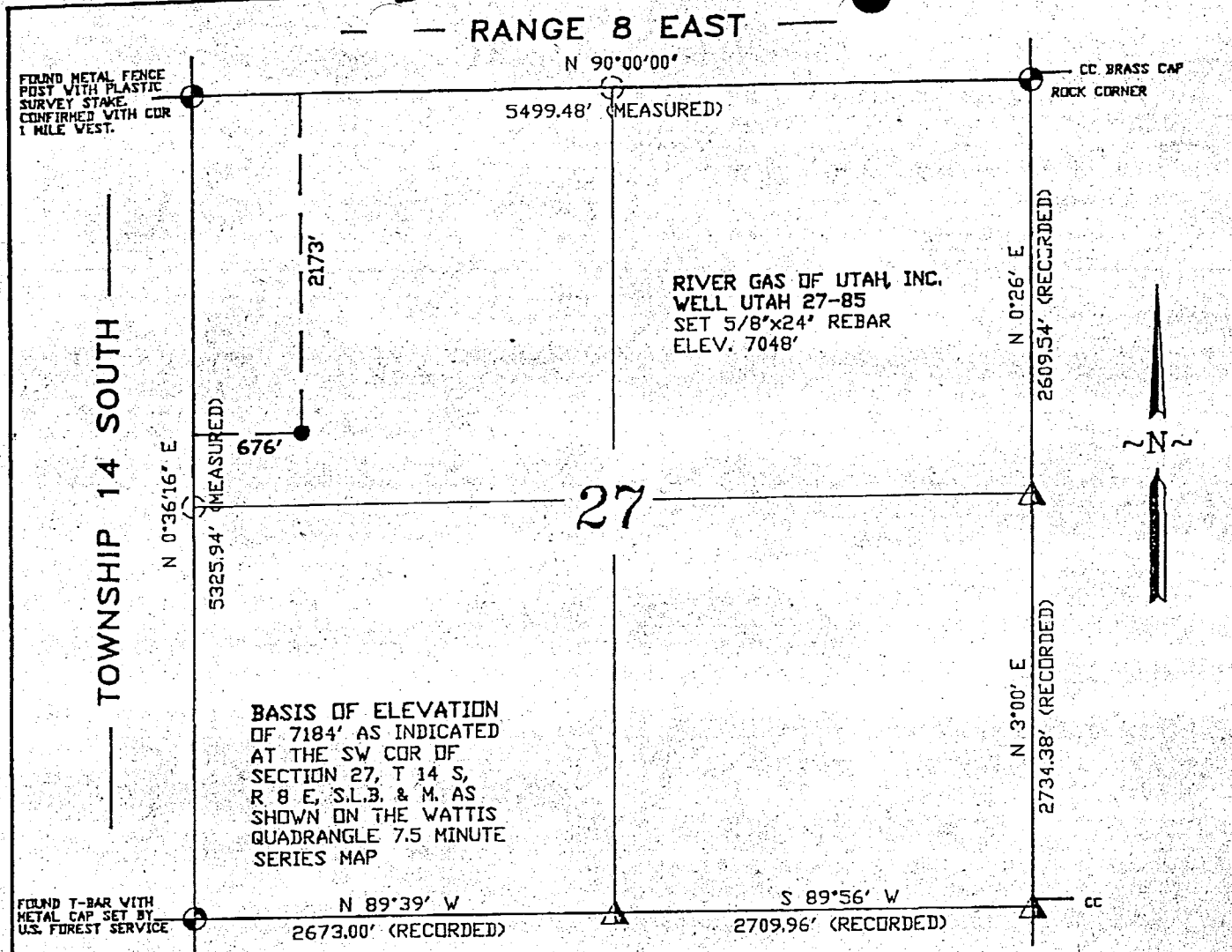
Title

Geologist

Date

09-26-94

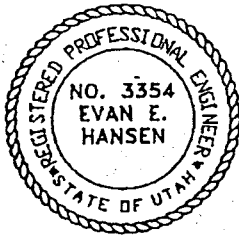
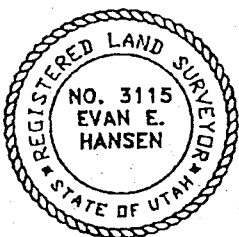
(Signature of Only)

**LEGEND**

- VERIFIED SECTION CORNER
- SEARCHED FOR BUT NOT FOUND
- ▲ G.L.D. RECORDED BRASS CAP

BASIS OF BEARING

BASIS OF BEARING N 90°00' E MEASURED
BETWEEN THE NW CORNER AND THE NE CORNER
OF SECTION 27, TOWNSHIP 14 SOUTH, RANGE 8
EAST, SALT LAKE BASE AND MERIDIAN.

**ENGINEER'S CERTIFICATE**

I, EVAN E. HANSEN, DO HEREBY CERTIFY THAT I AM
A REGISTERED LAND SURVEYOR AND PROFESSIONAL
ENGINEER HOLDING CERTIFICATES NO. 3115 AND NO. 3354
AS PRESCRIBED UNDER THE LAWS OF THE STATE OF UTAH.
I FURTHER CERTIFY THAT I HAVE MADE A SURVEY OF
THE TRACT OF GROUND SHOWN AND THAT IT IS TRUE
AND CORRECT TO THE BEST OF MY KNOWLEDGE.

Evan E. Hansen
EVAN E. HANSEN

SEPT. 23, 1999
DATE

DATE REVISED 9/20/94

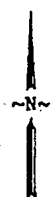
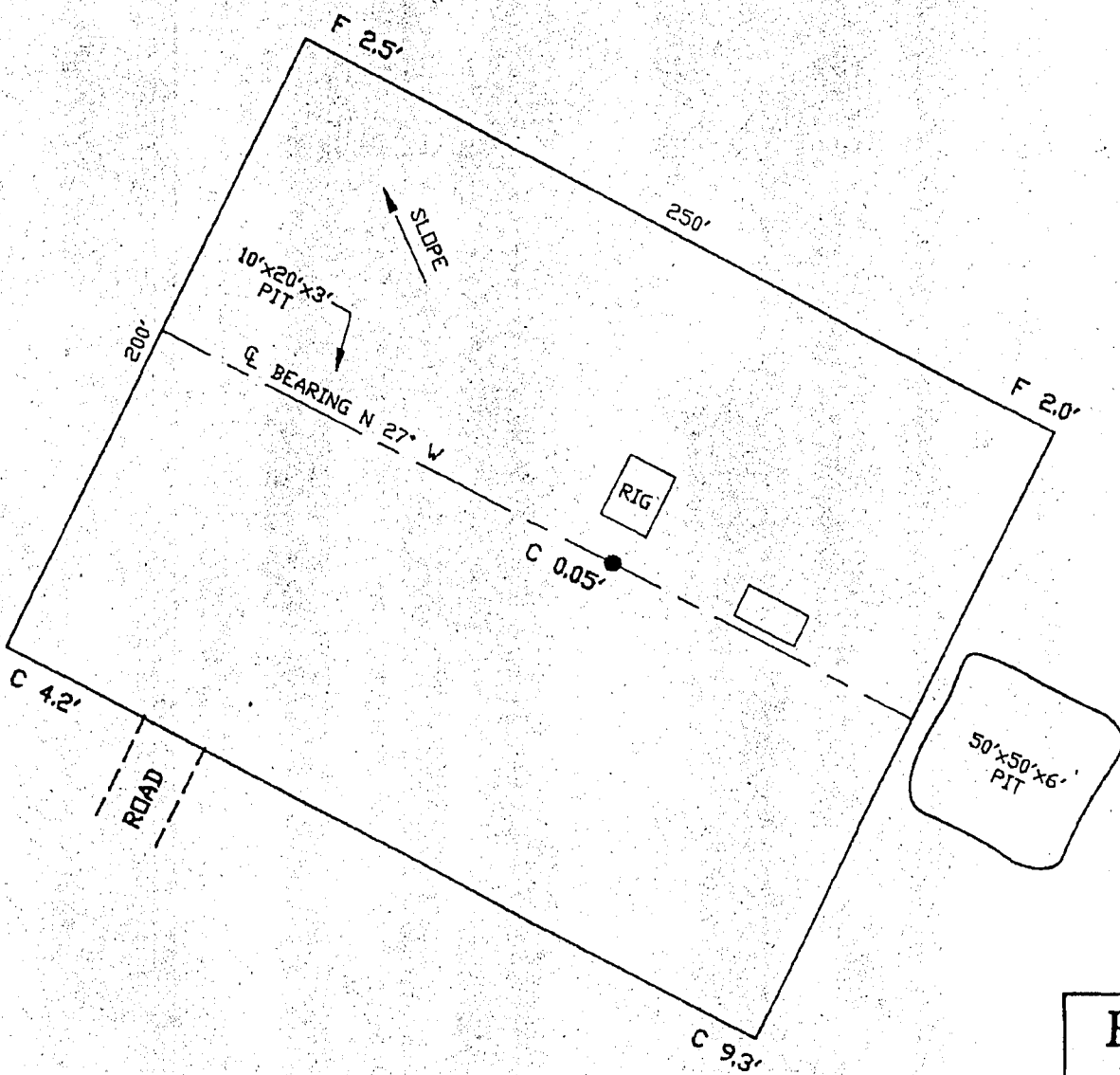
NW1/4 SEC. 27, T 14 S, R 8 E, S.L.B. & M.

Empire Engineering

1665 E. Sagewood Rd. Price, Utah 84501

**RIVER GAS OF UTAH, INC.
WELL UTAH 27-85**

Drawn By: TLH	Approved By: EEH	Drawing No.
Date: 9/23/94	Scale: 1"=1000'	EEOG-9485



Empire Engineering

1665 E. Sagewood Rd. Price, Utah 84501

RIVER GAS OF UTAH, INC.
WELL 27-85

Drawn By: TLH	Approved By: EEH	Drawing No. EEOG-9485A
Date: 9/23/94	Scale: 1' = 50'	



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

September 30, 1994

River Gas of Utah, Inc.
511 Energy Center Blvd.,
Northport, Alabama 35476

Re: Utah 27-85 Well, 2173' FNL, 676' FWL, SW NW, Sec. 27, T. 14 S., R. 8 E.,
Carbon County, Utah

Gentlemen:

Pursuant to Utah Admin. R. 649-3-2, Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.
2. Notification to the Division within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

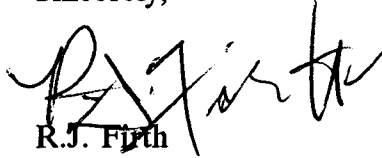


Page 2
River Gas of Utah, Inc.
Utah 27-85 Well
September 30, 1994

6. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-007-30261.

Sincerely,


R.J. Firth
Associate Director

ldc
Enclosures
cc: Carbon County Assessor
Bureau of Land Management, Moab District Office
WO11

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPUDDING INFORMATION

NAME OF COMPANY: RIVER GAS OF UTAH

WELL NAME: UTAH 27-85

API NO. 43-007-30261

Section 27 Township 14S Range 8E County CARBON

Drilling Contractor PENSE BROS

Rig # 11

SPUDDED: Date 10/10/94

Time 4:00 PM

How ROTARY

Drilling will commence

Reported by GREG MUELLER

Telephone # 1-637-8876

Date 10/11/94 SIGNED JLT

ENTITY ACTION FORM - FORM 6

OPERATOR River Gas of Utah
ADDRESS 511 Energy Center Blvd-
Northport, AL 35476

OPERATOR ACCT. NO. N 1600

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11682	43-007-30261	Utah 27-85	SW/NW	27	14S	8E	Carbon	10/10/94	
WELL 1 COMMENTS: <i>Entity added 10-19-94. Jec</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Dennis Plowman *Dennis Plowman*
Signature
Reservoir Technician 10/12/94
Title Date
Phone No. (205) 759-3282

SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENTS

WILLIAM D. HOWELL
Executive Director

P. O. Drawer 1106 • Price, Utah 84501 • Telephone 637-5444

0017A

AREAWIDE CLEARINGHOUSE A-95 REVIEW

14 01 07

NOI ___ Preapp ___ App ___ State Plan ___ State Action X Subdivision ___ (ASP # 9-912-1)

Other (indicate) _____ SAI Number UT940908-050

Applicant (Address, Phone Number):

Federal Funds:

Requested: _____

Oil, Gas and Mining
355 West North Temple
3 Triad Center Ste 350
Salt Lake City, Utah 84180-1203

Title:

APPLICATION FOR PERMIT TO DRILL

- #27-85*
Ac 27, T14S, R8E.
State lease: ML 43023
- ☒ No comment
☐ See comments below
☐ No action taken because of insufficient information
☐ Please send your formal application to us for review. Your attendance is requested ☐

The applicant should forward any written review comments to the funding agency. Any written response to those comments should be forwarded to the State Clearinghouse and also to the funding agency.

Comments:

43-007-30261

Mark A. ...

Authorizing Official

10-20-94

Date

REGIONAL CLEARINGHOUSE

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to: Utah 27-85
☐ Well File
(Location) Sec 2 Twp 14S Rng 8E
(API No.) 43-007-30261

☐ Suspense
(Return Date) _____
(To - Initials) _____
☐ Other

1. Date of Phone Call: 11/3/94 Time: 10:00 PM

2. DOGM Employee (name) J. R. Matthews (Initiated Call ☐)
Talked to:

Name Jerry Barnes (Initiated Call ☐) - Phone No. ()
of (Company/Organization) River Cos of Utah

3. Topic of Conversation: Plugging of well.

4. Highlights of Conversation: Greg Muller called first for
plugging instructions but had no top. Jerry
Barnes called said tops of Ferron
3350' TD-3640'
#1 plug cement 3350'-3640' across Ferron
#2 plug @ 800' - 1000' for water seal
#3 plug @ 265' - 365' surface exp.
#4 plug @ surface 0 - 50'

by hole marker of base
& location.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☒ OTHER:

2. Name of Operator:

RIVER GAS OF UTAH, INC.

3. Address and Telephone Number:

511 Energy Center Blvd. Northport, Alabama 35476

4. Location of Well:

Footage: 676' FWL & 2173' FNL (SW/4 of NW/4)

Oil Sec., T, R, M: Sec 27, T14S, R08E

5. Lease Designation and Survey Number:

ML-43023

6. If Indian, Allottee or Title Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

27-85

9. API Well Number:

43-007-30261

10. Field and Pool, or Wellbore:

WILDCAT

County: CARBON

State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start November 5, 1994

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL
COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Ross Well Service ran 2 7/8" Tbg in hole to 3618' (taged fill). RU Halliburton's pump truck & pumped 5 bbls of wtr followed by 105 sks of Type V + 2% CaCl. This plug was displaced w/15 bbls of mud. The Tbg was pulled to 1000' (84 jnts) pumped 8 bbls of mud followed by 80 sks of Type V cmt + 2% CaCl. This plug was displaced w/4 bbls of mud. The Tbg was pulled to 375' (20jnts) pumped 25 bbls of wtr followed by 40 sks of Type V cmt + 2% CaCl. This plug was displaced w/2 bbls of wtr. The Tbg was pulled to 25' (11jnts) pumped 15 sks Type V cmt + 2% CaCl. Pulled TOH. A metal plate was welded on top of the Csg w/Utah 27-85 marking.

WELL DATA

Surface Csg 8 5/8" 24#/ft J-55
Driller TD 3640'
Logger TD 3610'
Ferron formation 3350'
Hole Size 7 5/8"

PLUG DATA

1st Plug	3618'-3300'	105sks Type V + 2% CaCl	1.18cuft/sk
2nd Plug	1000'- 750'	84sks Type V + 2% CaCl	1.18cuft/sk
3rd Plug	375'- 250'	40sks Type V + 2% CaCl	1.18cuft/sk
4th plug	25'- 0'	15sks Type V + 2% CaCl	1.18cuft/sk

Yield

Halliburton Energy Service set all cement plugs

13.

Name & Signature: STEVEN L. PRINCE

Steven L. Prince

Title: OPERATIONS MANAGER

Date: 11/29/94

(This space for State use only)

NATURE SAVER™ FAX MEMO 01616

To	From	Date	# of pages
Dennis Plaxman	Rochelle C.	11/17/95	1
Co./Dept.	Co.		
Phone #	Phone #		
Fax # 59-3288	Fax # 1037-8924		

(See Instructions)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

DEC 7 1994

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☒ OTHER:

2. Name of Operator:

RIVER GAS OF UTAH, INC.

3. Address and Telephone Number:

511 Energy Center Blvd. Northport, Alabama 35476

4. Location of Well

Footages: 676' FWL & 2173' FNL (SW/4 of NW/4)

OQ, Sec., T., R., M.: Sec 27, T14S, R08E

5. Lease Designation and Serial Number:

ML-43023

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

27-85

9. API Well Number:

43-007-30261

10. Field and Pool, or Wildcat:

WILDCAT

County: CARBON

State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- ☒ Abandonment ☐ New Construction
☐ Casing Repair ☐ Pull or Alter Casing
☐ Change of Plans ☐ Recompletion
☐ Conversion to Injection ☐ Shoot or Acidize
☐ Fracture Treat ☐ Vent or Flare
☐ Multiple Completion ☐ Water Shut-Off
☐ Other _____

Approximate date work will start November 5, 1994SUBSEQUENT REPORT
(Submit Original Form Only)

- ☒ Abandonment ☐ New Construction
☐ Casing Repair ☐ Pull or Alter Casing
☐ Change of Plans ☐ Shoot or Acidize
☐ Conversion to Injection ☐ Vent or Flare
☐ Fracture Treat ☐ Water Shut-Off
☐ Other _____

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL
COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Ross Well Service ran 2 7/8" Tbg in hole to 3618' (tagged fill). RU Halliburton's pump truck & pumped 5 bbls of wtr followed by 105 sks of Type V + 2% CaCl. This plug was displaced w/15 bbls of mud. The Tbg was pulled to 1000' (84 jnts) pumped 8 bbls of mud followed by 80 sks of Type V cmt + 2% CaCl. This plug was displaced w/4 bbls of mud. The Tbg was pulled to 375' (20jnts) pumped 25 bbls of wtr followed by 40 sks of Type V cmt + 2% CaCl. This plug was displaced w/2 bbls of wtr. The Tbg was pulled to 25' (11jnts) pumped 15 sks Type V cmt + 2% CaCl. Pulled TOH. A metal plate was welded on top of the Csg w/Utah 27-85 marking.

WELL DATA

PLUG DATA

Yield

Surface Csg 8 5/8" 24#/ft J-55	1st Plug	3618'-3300'	105sks Type V + 2% CaCl	1.18cuft/sk
Driller TD 3640'	2nd Plug	1000'- 750'	84sks Type V + 2% CaCl	1.18cuft/sk
Logger TD 3610'	3rd Plug	375'- 250'	40sks Type V + 2% CaCl	1.18cuft/sk
Ferron formation 3350'	4th plug	25'- 0'	15sks Type V + 2% CaCl	1.18cuft/sk
Hole Size 7 5/8"				

Halliburton Energy Service set all cement plugs

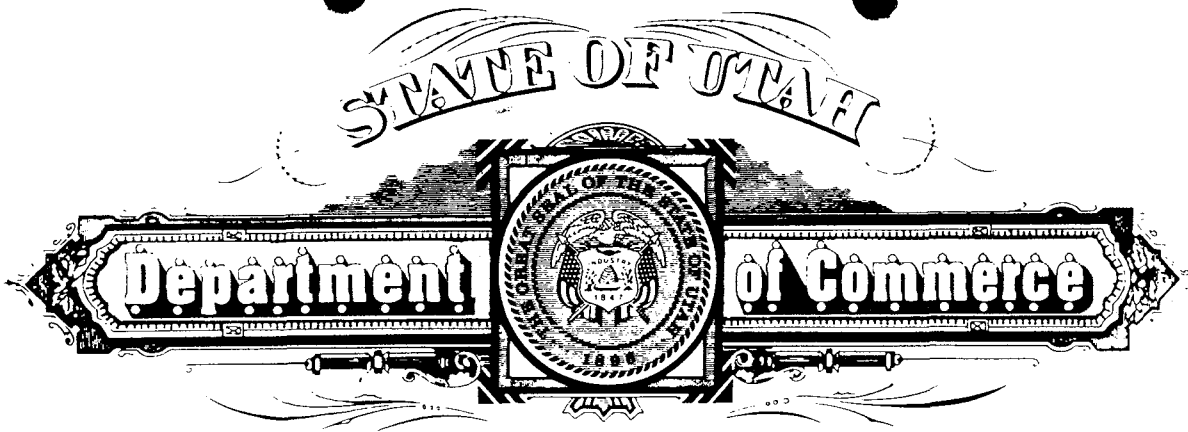
13.

Name & Signature: STEVEN L. PRINCE

Title: OPERATIONS MANAGER

Date: 11/29/94

(This space for State use only)

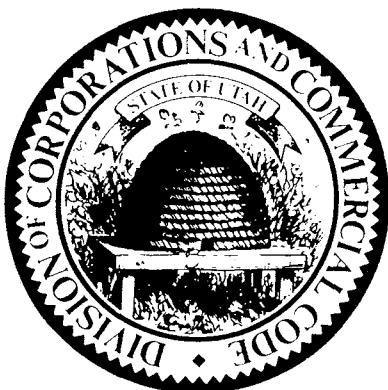


CERTIFICATION OF ARTICLES OF MERGER

THE UTAH DIVISION OF CORPORATIONS AND COMMERCIAL CODE HEREBY CERTIFIES THAT Articles of Merger were filed with this office on January 1, 1995, merging RIVER GAS OF UTAH, INC., a corporation of the State of Utah, into RIVER GAS CORPORATION, the surviving corporation which is of the State of Alabama,

AS APPEARS OF RECORD IN THE OFFICES OF THE DIVISION.

File Number: *CO 171151*



Dated this 16th day
of February, 19 95.

Korla S. Woods

Korla T. Woods
Director, Division of
Corporations and Commercial Code

LAW OFFICES

PRUITT, GUSHEE & BACHTELL

SUITE 1850 BENEFICIAL LIFE TOWER

SALT LAKE CITY, UTAH 84111-1495

(801) 531-8446

ROBERT G. PRUITT, JR.
OLIVER W. GUSHEE, JR.
THOMAS W. BACHTELL
A. JOHN DAVIS, III
JOHN W. ANDERSON
FREDERICK M. MACDONALD
ANGELA L. FRANKLIN

TELECOPIER (801) 531-8468

OF COUNSEL
JOHN F. WALDO
BRENT A. BOHMAN

February 17, 1995

Utah Division of Oil, Gas and Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: Lisha Cordova

Re: *River Gas Corporation Merger*

Dear Ms. Cordova:

As you may recall, this office serves as Utah legal counsel for River Gas Corporation ("RGC"). Effective January 1, 1995, River Gas of Utah, Inc. ("RGU") merged into RGC as evidenced by the enclosed Certification of Articles of Merger issued by the Utah Department of Commerce. I have also enclosed a listing of all wells which, to the best of RGC's knowledge, RGU operated and an amendment to the Letter of Credit from RGU's surety recognizing the merger and confirming bond coverage for RGC.

Based on the enclosed documentation, please change your records to reflect that RGC is the current operator of all wells formerly operated by RGU. If a formal decision letter recognizing the merger is to be executed, please send the original to RGC at the following address:

River Gas Corporation
Attention: Joseph L. Stephenson, Vice President-Land
511 Energy Center Blvd.
Northport, Alabama 35476,

with a copy to me at the letterhead address.

RECEIVED

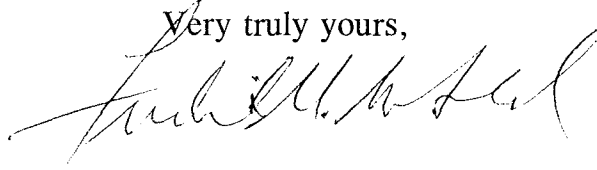
FEB 17 1995

DIVISION OF
OIL, GAS & MINING

Utah Division of Oil, Gas and Mining
February 17, 1995
Page 2

I thank you in advance for your time and cooperation and, should there be any questions or problems, please do not hesitate to contact me.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Frederick M. MacDonald".

Frederick M. MacDonald

FMM:sp
1526.39
Enclosures
cc: Joseph L. Stephenson

43-007-30256	✓Utah 24-81 / <i>CR</i>	15 South, 9 East, 24	Carbon
43-007-30257	✓Utah 32-82 / <i>CR</i>	15 South, 9 East, 32	Carbon
43-007-30259	✓Utah 21-83 / <i>CR</i>	15 South, 10 East, 21	Carbon
43-007-30258	✓Helper 07-84 / <i>CR</i>	15 South, 9 East, 7	Carbon
43-007-30261	✓Utah 27-85 / <i>CR</i>	14 South, 8 East, 27	Carbon
43-007-30040	✓Utah 31-01-D1 / <i>WOW</i> <i>DATA</i>	14 South, 10 East, 31	Carbon
43-007-30107	✓E.G. Telonis #1	14 South, 9 East, 20	Carbon
43-007-30093	✓Arcadia-Telonis / <i>WOW</i> <i>DATA</i>	14 South, 9 East, 19	Carbon
43-007-30100	✓Drew #1 / <i>WOW</i> <i>DATA</i>	14 South, 9 East, 34	Carbon
43-007-30114	✓Drew #2	14 South, 9 East, 34	Carbon
43-007-30116	✓Stella-Hamaker	15 South, 8 East, 10	Carbon
43-007-30117	✓Pinnacle Peak Unit #2	14 South, 9 East, 19	Carbon

Speed Letter®

To Ed Bonner

From Don Staley

~~STATE LANDS~~ SCHOOL & INSTITUTIONAL
TRUST LANDS ADMIN.

Oil, Gas and Mining

Subject Operator Change

— No. 9 & 10 FOLD

MESSAGE

Date

3/10

19 95

Ed,

For your information, attached are copies of documents regarding an operator change on a state lease(s). These companies have complied with our requirements. Our records have been updated. Bonding should be reviewed by State Lands ASAP.

Former Operator: River Gas of Utah Inc (N1600)

New Operator : River Gas Corporation (N1605)

Well:

API:

Entity:

S-T-R:

See Attachments

— No. 9 FOLD

— No. 10 FOLD

CC: Operator File

Signed

Don Staley

REPLY

Date

19

— No. 9 & 10 FOLD

Signed

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

Routing:

1-LEC	1-GEL
2-LWP	7-PL
3-DTS	8-SJ
4-VLC	9-FILE
5-RJF	
6-LWP	

☒ Change of Operator

☐ Designation of Agent

☐ Designation of Operator

☒ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1-1-95)

TO (new operator) RIVER GAS CORPORATION
 (address) 511 ENERGY CENTER BLVD
NORTHPORT AL 35476

FROM (former operator) RIVER GAS OF UTAH INC
 (address) 511 ENERGY CENTER BLVD
NORTHPORT AL 35476

phone (205) 759-3282
 account no. N 1605 (2-1-95)

phone (205) 759-3282
 account no. N 1600

Well(s) (attach additional page if needed):

***DRUNKARDS WASH UNIT**

Name: **SEE ATTACHED**	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- 1 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rep. 2-1-95) (Rec'd 2-17-95)
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- 1 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: #171151. (c# 12/94)
- 1 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- 1 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (3-2-95)
- LWP 6. Cardex file has been updated for each well listed above. 3-8-95
- LWP 7. Well file labels have been updated for each well listed above. 3-9-95
- 1 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (3-6-95)
- 1 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- LC* 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A* 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

** Trust Lands / IDLOC # 530466 / 80,000 "Nm Chg. Ltr. rec'd 5 Aprv."*

- LC* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond. *IDLOC # 5308586 / 80,000 "Nm Chg. Ltr. rec'd 1-30-95"*
- ___ 2. A copy of this form has been placed in the new and former operators' bond files.
- N/A* 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19__.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- W/A* 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19__, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- OTS* 2. Copies of documents have been sent to State Lands for changes involving State leases. *3/10/95 to Ed Banner*

FILMING

- ___ 1. All attachments to this form have been microfilmed. Date: _____ 19__.

FILING

- ___ 1. Copies of all attachments to this form have been filed in each well file.
- ___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

** 8/1/95 Aprv. #1. 2-16-95.*

950307 GH/WIC FG Not necessary 31-01-01/WIC, Telonic #1/WDA, Area #1/WDA.

ORIGINAL

FORM 8

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

ML-43023

IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:

OIL
WELL ☐GAS
WELL ☒DRY ☐

Other _____

b. TYPE OF COMPLETION:

NEW
WELL ☒WORK
OVER ☐DEEP-
EN ☐PLUG
BACK ☐DIFF.
RESVR. ☐

Other _____

2. NAME OF OPERATOR

River Gas Corporation

3. ADDRESS OF OPERATOR

1305 S. 100 E Price, Utah 84501-0638 (435) 637-8876

4. LOCATION OF WELL (Report

clearly and in accordance with any State requirements)

location

At surface 2173' FNL & 676' FWL

At top prod. interval reported below

14. API NO.

43-007-30261

DATE ISSUED

10-30-94

12. COUNTY

Carbon

13. STATE

Utah

15. DATE SPUDDED

10-10-94

16. DATE T.D. REACHED

11-2-94

17. DATE COMPL. (Ready to prod.)

11-6-94

or
(Plug & Abd.)

18. ELEVATIONS (DF, REB, RT, GR, ETC.)

GR 7048'

19. ELEV. CASINGHEAD

N/A

20. TOTAL DEPTH, MD & TVD

3640'

21. PLUG BACK T.D., MD & TVD

3640'

22. IF MULTIPLE COMPL.,

HOW MANY

N/A

23. INTERVALS

DRILLED BY

ROTARY TOOLS

to TD

CABLE TOOLS

N/A

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD OR TVD)

25. WAS DIRECTIONAL

SURVEY MADE

NO

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction, SFL, GR, Compensated Density, & Neutron

27. WAS WELL CORED

YES ☒NO ☐

DRILL STEM TEST

YES ☐NO ☐

(Submit analysis)

(See reverse side)

3375'-3494'

28.

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENT RECORD	AMOUNT PULLED
12 3/4"	Conductor	17'	14 "		
8 5/8"	24#	314'	11"	135 sxs Class G, 2% CaCl, 4% Gel, & 1/4#/sx D-29	

29.

LINER RECORD

30.

TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)



32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)

AMOUNT AND KIND OF MATERIAL USED

33.

PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping---size and type of pump)					WELL STATUS (Producing or shut-in)	
N/A		N/A					Plugged & Abandoned	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL---BBL.	GAS---MCF.	WATER---BBL.		GAS-OIL RATIO
N/A	N/A	-----		N/A	N/A	N/A		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL---BBL.	GAS---MCF.	WATER---BBL.		OIL GRAVITI - API (CORR.)	
N/A	N/A		N/A	N/A	N/A		N/A	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

N/A

N/A

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

N/A

36 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Cal K. K. K.

TITLE

Petroleum Engineer

DATE

January 26, 1999

See Spaces for Additional Data on Reverse Side

INSPECTION FORM 4 STATE OF UTAH
DIVISION OF OIL GAS AND MINING

OIL AND GAS PRODUCTION FACILITIES

Well Name: <u>Utah 27-85</u>	API Number: <u>43-007-30601 30261</u>		
Qtr/Qtr: _____	Section: <u>27</u>	Township: <u>14 S</u>	Range: <u>8 E</u>
Company Name: <u>River Gas</u>			
Lease: State <u>X</u>	Fee _____	Federal _____	Indian _____
Inspector: <u>Mark L. Jones</u>	Date: <u>8/30/2001</u>		

Type of Inspection: Routine Complaint Other Bond Release

Well status at time of visit: Producing _____ Shut-in _____ Other PA

COMMENTS: The above named well has a PA marker on the location. The location has been reclaimed and reseeded. The access road has also been reclaimed and reseeded. Berms and pits have all been pulled in and buried. Vegetation is growing over the well site as well as the access road. There is no visible evidence of the original well. The location looks good. Photos were taken at time of inspection.









